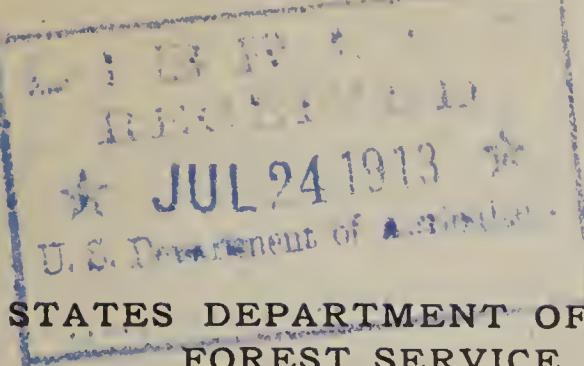


Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



Issued July 15, 1913.

UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1913.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor; BRISTOW ADAMS, in charge of information.

FINDLEY BURNS, in charge of technical review.

Educational cooperation, DON CARLOS ELLIS.

Proofs and forms, CLAUDE M. BALLARD.

GEORGE B. SUDWORTH, dendrologist.

EUGENE S. BRUCE, expert lumberman.

ACCOUNTS.

M. E. FAGAN, chief; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, assistant forester, in charge; D. D. BRONSON, forest inspector; GEORGE G. ANDERSON, administrative assistant.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—E. S. SHIPP.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, assistant forester, in charge; EARLE H. CLAPP, forest inspector; R. Y. STUART, forest inspector; AUSTIN CARY, logging engineer; FRANKLIN H. SMITH, statistician in forest products, special detail; BARRINGTON MOORE, forest plans; HARRY IRION, office assistant.

STATE COOPERATION.—J. G. PETERS, chief.

Collaborators, State cooperative fire protection under the Weeks law.—B. S. Viles, land agent and forest commissioner, August, Me.; E. C. Hirst, State forester, Concord, N. H.; F. H. Billard, forester, New Hampshire Timberland Owners' Association, Berlin, N. H.; A. F. Hawes, State forester, Burlington, Vt.; F. W. Rane, State forester, Boston, Mass.; W. O. Filley, State forester, New Haven, Conn.; W. G. Howard, assistant superintendent of forests, Albany, N. Y.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; J. E. Barton, State forester, Frankfort, Ky.; E. M. Griffith, State forester, Madison, Wis.; Wm. T. Cox, State forester, St. Paul, Minn.; G. A. Day, State land commissioner, Boise, Idaho; F. A. Elliott, State forester, Salem, Oreg.; E. W. Ferris, State forester and fire warden, Olympia, Wash.

Inspection.—L. S. Murphy and J. H. Foster.

Study of forest conditions in North Carolina in cooperation with State Geological and Economic Survey.—J. S. Holmes and T. V. Keefe, Chapel Hill.

FOREST INVESTIGATIONS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief.

Studies.—E. H. Frothingham, W. D. Sterrett, C. R. Tillotson, G. N. Lamb, W. R. Mattoon, G. E. Clement, A. W. Williamson.

WOOD STRUCTURE STUDIES.—C. D. MELL, in charge; W. D. Brush, Arthur Koehler, R. G. Light.

FOREST DISTRIBUTION.—W. H. LAMB, in charge; G. E. Wharton.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

COMPILATION.—GEO. DE S. CANAVARRO; Miss E. B. Leech.

GRAZING.

A. F. POTTER, associate forester, in charge; L. F. KNEIPP, assistant forester; WILL C. BARNES, inspector of grazing.

GRAZING STUDIES (in cooperation with F. V. Coville, botanist, Bureau of Plant Industry).—James T. Jardine, inspector of grazing, in charge, Washington, D. C.

Forage investigations.—William A. Dayton, plant ecologist, Washington, D. C.



LANDS.

JAMES B. ADAMS, assistant forester, in charge; FRANKLIN W. REED, forest inspector; W. J. MANGAN, examiner.

WATER POWER.—O. C. MERRILL, chief engineer; T. W. NORCROSS, assistant chief engineer.

CLAIMS AND OCCUPANCY.—CHARLES H. SQUIRE, in charge.

LAND CLASSIFICATION.—FRANKLIN W. REED, in charge; ROBERT V. R. REYNOLDS, forest examiner.

AGRICULTURAL CLASSIFICATION.—FRANKLIN W. REED, in charge.

SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES.—H. E. WOOLLEY, in charge.

PRODUCTS.

W. B. GREELEY, assistant forester, in charge.

FOREST PRODUCTS LABORATORY (in cooperation with the University of Wisconsin, Madison, Wis.).—HOWARD F. WEISS, director.

H. S. BETTS and CARLILE P. WINSLOW, engineers in forest products.

Design of laboratory equipment.—ROLF THELEN.

Review of results.—WM. H. KEMPFER.

CHEMISTRY AND DISTILLATION.—ERNEST BATEMAN, acting in charge; A. W. Schorger, F. W. Kressman, R. C. Palmer, Jacob M. Johlin, jr., Homer Cloukey.

ENGINEERING.—A. L. HEIM, in charge; Frank J. Hallauer, James O. Bixby, O. M. Sutherland.

MAINTENANCE.—CHAS. P. JUCKEM, in charge.

PULP AND PAPER.—H. E. SURFACE, in charge; Sidney D. Wells, Charles S. Gwinn, Alexander W. Beemer.

TIMBER PHYSICS.—H. D. TIEMANN, in charge; Frederick Dunlap, Eloise Gerry, N. de W. Betts, M. E. Diemer.

TIMBER TESTS.—JOHN A. NEWLIN, in charge; A. K. Armstrong, Thomas R. C. Wilson, Lorraine J. Markwardt.

WOOD PRESERVATION.—CLYDE H. TEESDALE, acting in charge; E. W. Peters, H. M. Mason, jr., James D. MacLean.

GROUND-WOOD-PULP LABORATORY, Wausau, Wis.—G. C. MCNAUGHTON, acting in charge; Sidney E. Lunak.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge; Ruth E. Bates.

INDUSTRIAL INVESTIGATIONS.—O. T. SWAN, in charge, Washington, D. C. Wood Consumption Studies, R. E. Simmons, Clark W. Gould, S. L. Wolfe, Washington, D. C.; Hu Maxwell, Chicago, Ill. Production of Lumber and Forest Products, A. H. Pierson, Washington, D. C. Chestnut Blight Utilization Studies, Jesse C. Nellis, Washington, D. C.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, assistant forester, in charge, Washington, D. C.

LUMBERMEN'S EXAMINATIONS.—W. W. Ashe, C. D. Cushing, E. D. Fletcher, and Geo. E. Marshall, Washington, D. C.

EXAMINATIONS OF LANDS.—W. W. ASHE, in charge, Washington, D. C.; White Mountain area, J. S. Benedict, in charge, Gorham, N. H., D. W. Martin, S. H. Thompson, and L. H. Steffens, forest assistants; Massanutten, Potomac, and Youghiogheny areas, E. D. Clark, forest assistant, in charge, Woodstock, Va.; Shenandoah area, S. H. Marsh, forest assistant, in charge, Harrisonburg, Va.; Natural Bridge area, J. H. Fahrenbach, forest assistant, in charge, Natural Bridge, Va.; Monongahela area, W. A. Hopson, forest assistant, in charge, Elkins, W. Va.; White Top area, C. Macfarlane, forest assistant, in charge, Abingdon, Va.; Unaka area, E. P. Bushnell, forest assistant, in charge, Johnson City, Tenn.; Mount Mitchell area, L. L. Bishop, forest assistant, in charge, Marion, N. C., and R. J. Noyes, forest assistant; Nantahala area, R. F. Hemingway, forest assistant, in charge, Andrews, N. C., and E. M. Brunner, W. E. Barbour, forest assistants; Smoky Mountain area, V. Rhoades, forest examiner, in charge, Townsend, Tenn., and W. J. Damtoft, forest assistant; Pisgah area, J. J. Fritz, forest assistant, in charge, Highlands, N. C., and J. H. Keyes, J. S. Kaplan, forest assistants; Savannah area, R. W. Shields, forest assistant, in charge, Clayton, Ga., and C. E. Beaumont, H. G. Spahr, E. Lindsey, forest assistants; Georgia area, E. V. Clark, forest examiner, in charge, Blueridge, Ga.; Cherokee area, H. L. Johnson, forest assistant, in charge, Etowah, Tenn., and R. C. Hall, H. L. Russell, R. P. Holdsworth, H. M. Sears, forest assistants, Washington, D. C.

SURVEY OF LANDS.—RUDOLPH DIEFFENBACH, forest examiner, in charge; Robert G. Merritt, forest examiner, Washington, D. C.; White Mountain area, Arthur E. Hoxie and Herman L. Tucker, examiners of surveys; Gorham, N. H.; Potomac area, Ernest P. Whitten, A. M. Ockerblad, Alfred P. Hamilton, examiners of surveys, Woodstock, Va.; Massanutten area, E. F. Benendum and Edward R. Conrad, examiners of surveys, Woodstock, Va.; Unaka area, J. L. Pritchard, examiner of surveys, Johnson City, Tenn.; Mount Mitchell area, Dave M. Gibson, examiner of surveys, Marion, N. C.; Nantahala area, Roy L. McGuire and James Denman, examiners of surveys, C. Z. Denton, agent, Andrews, N. C.; Cherokee area, Thomas A. Cox, jr., and Robert E. Witt, examiners of surveys, Etowah, Tenn.; Savannah area, Frederick A. Gardner, Leon C. Marshall, Samuel L. Chiles, William N. Sloan, and Harold G. Wood, examiners of surveys, Clayton, Ga.

ADMINISTRATION OF ACQUIRED LANDS.—K. W. WOODWARD, in charge, Washington, D. C.

LAW.—Office of the Solicitor (Forest Service branch). Record examiners, M. B. Stickley, Franklin, N. C.; George E. Taylor, Bristol, Tenn.; Cameron F. MacRae, Franklin, N. C.; Alfred S. Grigg, Maryville, Tenn.; A. S. Lanier, Richmond, Va.; Clarence E. Miles, Lancaster, N. H.; Chas. E. Jones, Asheville, N. C.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, and southwestern North Dakota. Office, Federal Building, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

OPERATION.—J. F. PRESTON, assistant district forester; R. B. ADAMS, superintendent of telephone construction.

MAINTENANCE.—GARDNER I. PORTER.

SILVICULTURE.—D. T. MASON, assistant district forester; DORR SKEELS, logging engineer.

TIMBER SALES.—DONALD BRUCE.

PLANTING AND FOREST INVESTIGATIONS.—H. H. FARQUHAR.

S. S. J. MALVEN, insect control.

JAMES R. WEIR, consulting pathologist, Missoula, Mont.

GRAZING.—C. H. ADAMS, assistant district forester; CHARLES E. FLEMING, grazing examiner.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

PRODUCTS.—P. R. HICKS.

EXPERIMENT STATION.

Priest River, Kaniksu National Forest.—DONALD R. BREWSTER, in charge, Priest River, Idaho.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 1, Missoula, Mont.—JOSEF BRUNNER, agent and expert in charge.

NATIONAL FORESTS.

IDAHO.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am).

Coeur d'Alene.—MEYER H. WOLFF, acting forest supervisor, Coeur d'Alene (WU-Am); W. W. Morris, forest assistant.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. A. FITZWATER, forest supervisor, Sandpoint (WU-Am, N, W).

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Charles F. Howell, deputy forest supervisor.

St. Joe.—EDWARD A. HOLCOMB, acting forest supervisor, St. Maries (Continental-WF); Wilford B. Willey and Richard C. Eggleston, forest assistants; C. H. Gregory, lumberman.

MONTANA.

Absaroka.—JOSEPH D. WARNER, forest supervisor, Livingston (WU-Am, N); D. L. Beatty, deputy forest supervisor.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N); Arthur H. Abbott, deputy forest supervisor.

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); John E. David, deputy forest supervisor.

- Bitterroot.**—W. W. WHITE, forest supervisor, Missoula (WU-Am, N) Herbert F. Lindsay, forest assistant.
- Blackfeet.**—R. P. MC LAUGHLIN, forest supervisor, Kalispell (WU-Am, GN).
- Cabinet.**—CLAUDE W. GRIFFIN, forest supervisor, Thompson Falls (WU-Am, N), Justin K. Dwinelle, forest assistant.
- Custer.**—GEORGE E. MARTIN, forest supervisor, Miles City (WU-Am, N).
- Deerlodge.**—LEWIS C. STOCKDALE, forest supervisor, Anaconda (P-Am, N); R. Trevor Ferguson, deputy forest supervisor; C. N. Whitney, forest assistant.
- Flathead.**—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor.
- Gallatin.**—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N); Samuel R. Hays, deputy forest supervisor.
- Helena.**—J. B. SEELEY, forest supervisor, Helena (WU-Am, N).
- Jefferson.**—SCOTT LEAVITT, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.
- Kootenai.**—WILLIAM A. RAYMOND, acting forest supervisor, Libby (WU-Am, GN) William C. Latane, deputy forest supervisor; Webster H. Ransom, forest assistant.
- Lewis and Clark.**—THOMAS C. SPAULDING, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins).
- Lolo.**—ELERS KOCH, forest supervisor, Missoula (WU, P-Am, N); William W. Bennett and John E. Keach, forest assistants.
- Madison.**—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N).
- Missoula.**—RUTLEDGE PARKER, forest supervisor, Missoula (WU, P-Am, N); Fay G. Clark, forest assistant.
- Sioux.**—See South Dakota.

NORTH DAKOTA.

- Dakota.**—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

SOUTH DAKOTA.

- Sioux.**—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

WASHINGTON.

- Kaniksu.**—M. N. STICKNEY, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, Priest River).
-

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, western Kansas, northern Michigan, and northern Minnesota. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE.—F. H. CARROLL.

SILVICULTURE.—C. M. GRANGER, assistant district forester.

PLANTING.—SEWARD D. SMITH.

FOREST INVESTIGATIONS.—C. G. BATES.

CARL HARTLEY, consulting pathologist, Washington, D. C.

GRAZING.—J. W. NELSON, assistant district forester; LYNN H. DOUGLAS, grazing examiner.

LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; THEODORE SHOEMAKER, Jr., land classification.

EXPERIMENT STATIONS.

Fremont, Pike National Forest.—F. B. NOTESTEIN, Manitou, Colo.; W. D. Hays, assistant.

Wagon Wheel Gap, Rio Grande National Forest.—PETER KEPLINGER, Wagon Wheel Gap, Colo., and H. C. Jones, of the Weather Bureau.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest examiner; Bruno R. Kudlich, Roscoe B. Weaver, forest assistants.

Battlement.—JOHN W. LOWELL, Jr., forest supervisor, Colbran (WU-WF, G); George Z. Mason, forest assistant.

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest examiner.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); HUBER C. HILTON, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G).

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); Harold L. Borden, forest assistant.

Hayden.—See Wyoming.

Holy Cross.—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); George R. Morrison, forest assistant.

La Sal.—See Utah, District 4.

Leadville.—R. E. CLARK, deputy forest supervisor, Leadville (WU, P-WF, G); J. E. Martin, forest examiner.

Montezuma.—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Gordon Parker, forest assistant.

Pike.—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF); W. I. Hutchinson, forest examiner; V. A. Beede, forest assistant; Monument Nursery, W. H. Schrader, forest planting assistant, Monument.

Rio Grande.—A. L. SWEITZER, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest examiner.

- Routt.**—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peck, deputy forest supervisor; P. J. Paxton, forest examiner.
- San Isabel.**—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); Albin G. Hamel, forest examiner.
- San Juan.**—G. P. BARD, forest supervisor, Pagosa Springs (WU-G); A. F. C. Hoffman, forest assistant.
- Sopris.**—JOHN McLAREN, forest supervisor, Aspen (WU-WF, G); W. G. Baxter, forest assistant.
- Uncompahgre.**—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); J. H. Ramskill, forest examiner.
- White River.**—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); Crosby A. Hoar, forest examiner.

KANSAS.

- Kansas.**—B. R. H. d'ALLEMAND, forest supervisor, Garden City (WU, P-WF) Garden City Nursery.

MICHIGAN.

- Marquette.**}—W. B. PIPER, forest supervisor, East Tawas (WU-Am).
Michigan.}—W. B. PIPER, forest supervisor, East Tawas (WU-Am).

MINNESOTA.

- Minnesota.**—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); Howard H. Richmond, forest assistant.

- Superior.**—LESLIE BROWNELL, acting forest supervisor, Ely (WU-GN).

NEBRASKA.

- Nebraska.**—H. EARL FRENCH, forest supervisor, Halsey (WU-Ad); Fred R. Johnson, forest assistant; Halsey Nursery.

SOUTH DAKOTA.

- Black Hills.**—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Percy T. Smith, forest assistant.

- Harney.**—R. P. IMES, forest supervisor, Custer (WU-Ad); Richard A. Phillips, forest assistant.

WYOMING.

- Bighorn.**—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Peirce, forest assistant.

- Bonneville.**—L. E. COOPER, acting forest supervisor, Dubois (WU-Am); Clarence E. Taylor, forest assistant.

- Bridger.**—H. C. HALL, forest supervisor, Pinedale (WU-Am).

- Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am).

- Medicine Bow.**—GEO. A. DUTHIE, forest supervisor, Laramie (WU, P-Am); D. S. Jeffers, forest assistant.

- Shoshone.**—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor.

- Sundance.**—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).

- Washakie.**—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Luna-Otero Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester; E. LEONARD LUNDGREN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). D. F. McGOWAN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester; A. S. PECK, assistant district forester; J. F. MULLEN, forest examiner, in charge improvement and protection.

MAINTENANCE.—H. B. HAMMOND.

SILVICULTURE.—JOSEPH C. KIRCHER, forest examiner; ATHOL A. WYNNE, lumberman, in charge timber sale inspection and check-scaling, Arizona and New Mexico; QUINCY RANDLES, forest assistant, in charge timber sale inspection and check-scaling, Arkansas; P. P. PITCHLYNN, in charge reconnaissance.

GRAZING.—JOHN KERR, assistant district forester; R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; M. M. CHENEY, assistant; FREDERIC WINN, in charge of land classification; RALPH C. HUEY, deputy forest supervisor in charge La Fourche land classification project on Arkansas Forest.

PRODUCTS.—JOHN T. HARRIS.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, Flagstaff, Ariz.; Alexander J. Jaenicke and Norman W. Scherer, forest assistants.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal, via Rodeo, N. Mex. (WU-WF).

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); Thomas E. McCullough, Clarence F. Korstian, and Gordon T. Backus, forest assistants.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF); Marinus Westveld, forest assistant.

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor; Edward P. Ancona, forest assistant.

Sitgreaves.—CHARLES H. JENNINGS, acting forest supervisor, Snowflake (WU, P-WF).

Tonto.—C. C. HALL, forest supervisor, Roosevelt (WU-WF); Reginald B. Forbes, forest assistant.

Tusayan.—HAROLD GREENE, forest supervisor, Williams (WU, P-WF); Robert L. Deering, deputy forest supervisor.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller and Raymond E. Hopson, forest assistants; O. F. Swanson, forest assistant, in charge reconnaissance.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); W. F. Hill, deputy forest supervisor; L. L. Janes and Robert S. Wallacee, forest assistants.

FLORIDA.

Florida.—I. F. ELDREDGE, forest supervisor, Camp Pinchot, Garniers (WU, P); John W. Speneer, forest assistant.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cluderoft (WU-WF).

Carson.—ALDO LEOPOLD, forest supervisor, Tres Piedras (WU-G); Raymond E. Marsh, deputy forest supervisor.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); H. Basil Wales and Ward Shepard, forest assistants.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn II. Douglas, deputy forest supervisor; Herman Krauch and N. Curtis Case, forest assistants; Fort Bayard Nursery, H. C. Turner, forest planting assistant; Ernest Wohlenberg, forest assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Coyote (WU-G); J. A. Adams, forest ranger, in charge reconnaissance.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU-WF).

Manzano.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P-WF).

Pecos.—THOMAS R. STEWART, forest supervisor, Cowles (WU-WF via Glorieta); Ira T. Yarnall, forest assistant; Las Gallinas Nursery, H. D. Burrall, forest examiner; Thomas P. Reid, forest assistant.

Zuni.—HUGH G. CALKINS, forest supervisor, Albuquerque (WU, P-WF).

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester; J. P. MARTIN, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. McCAIN, assistant district forester.

MAINTENANCE.—FELIX T. MOORE.

BOUNDARIES.

SILVICULTURE.—O. M. BUTLER, assistant district forester; D. F. SEERY, logging engineer; D. M. LANG, sealer.

PLANTING.—J. M. FETHIERS.**FOREST INVESTIGATIONS.**—E. R. HODSON.

RECONNAISSANCE: Weiser National Forest—A. E. OMAN, in charge; E. C. Sanford, W. F. Tribe, I. W. Cook, Levon Kooyumjian, Weiser, Idaho. Wyoming National Forest—R. A. STRETCH, in charge; William Mace, F. I. Watts, Afton, Wyo.

GRAZING.—HOMER E. FENN, assistant district forester; ALFRED E. ALDOUS, grazing examiner.

LANDS.—T. C. HOYT, assistant district forester; R. E. GERY, assistant; B. L. Wheeler, mineral examiner.

SUPPLY DEPOT.—A. M. SMITH, property clerk.**PROPERTY AUDIT.**—J. G. FALCK, property auditor.**EXPERIMENT STATION.**

Utah, Manti National Forest.—ARTHUR W. SAMPSON, in charge; Forman T. McLean, Ephraim, Utah.

NATIONAL FORESTS.**ARIZONA.**

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

Caribou.—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); L. W. Hastings, deputy forest supervisor; J. H. Hull, forest assistant.

Challis.—DAVID LAING, forest supervisor, Challis (WU-Am).

Idaho.—HERBERT GRAFF, forest supervisor, McCall (WU-P).

Lemhi.—C. I. HUDDLE, forest supervisor, Mackay (WU-Am).

Minidoka.—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).

Palisade.—FRANK J. RYDER, forest supervisor, St. Anthony (WU-Am); C. F. Evans, forest assistant.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Lawrence J. Phelan, deputy forest supervisor; Lee O. Miles and W. N. Sparhawk, forest assistants.

Pocatello.—J. F. BRUINS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery, Arthur P. Say, forest ranger.

Salmon.—JOHN A. PEARSON, forest supervisor, Salmon (WU-Am); S. S. Stewart, deputy forest supervisor; Herman Work, forest assistant.

Sawtooth.—C. N. WOODS, forest supervisor, Hailey (WU-Am); Herbert G. McPheeters and Samuel B. Locke, deputy forest supervisors.

Targhee.—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; J. W. Stokes, forest assistant.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

Humboldt.—S. B. ARTHUR, forest supervisor, Gold Creek (WU-WF).

Moapa.—THOMAS J. COLLINS, forest supervisor, Austin (WU-Am).

Nevada.—GEO. C. THOMPSON, forest supervisor, Ely (WU-WF).

Ruby.—JAMES M. RYAN, forest supervisor, Lamoille (WU-WF).

Santa Rosa.—W. W. BLAKESLEE, forest supervisor, Paradise.

Toiyabe.—THOMAS J. COLLINS, forest supervisor, Austin (WU, P-WF); R. D. Garver, forest assistant.

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, deputy forest supervisor.

Cache.—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. W. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.

Dixie.—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).

Fillmore.—ERNEST WINKLER, forest supervisor, Richfield (WU-WF).

Fishlake.—CARL B. ARENTSON, forest supervisor, Salina, (WU-WF); D. A. Arrivee, forest assistant.

La Sal.—HENRY A. BERGH, forest supervisor, Moab (WU-WF).

Manti.—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); B. E. Mattsson, deputy forest supervisor; J. C. Roak and E. S. Baker, forest assistants.

Minidoka.—See Idaho.

Nebo.—DAN S. PACK, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).

Sevier.—O. C. SNOW, forest supervisor, Panguitch (WU-WF); A. G. Hauge, forest assistant.

Uinta.—W. I. PACK, forest supervisor, Provo (WU-WF); J. Carl Allred, deputy forest supervisor; Nils B. Eckbo, forest assistant; Uinta Nursery, Asa L. Brower, forest assistant.

Wasatch.—E. H. CLARKE, forest supervisor, Salt Lake City (WU, P-Am, WF); S. E. Bower, forest assistant; Wasatch Nursery, N. J. Fetherolf, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Palisade.—See Idaho.

Targhee.—See Idaho.

Teton.—R. E. MILLER, forest supervisor, Jackson (WU-Am); H. B. Maris, forest assistant.

Wyoming.—JAMES E. JEWELL, forest supervisor, Afton (WU-Am); John E. Ingram, deputy forest supervisor; R. A. Stretch, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; F. H. FOWLER, district engineer; J. L. MATHIAS, assistant to district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge; MAURY CURTIS, assistant to the solicitor.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester; WM. C. HODGE, Jr., inspector of fire-protection plans.

MAINTENANCE.—T. M. KENNEDY.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; SWIFT BERRY, forest examiner; J. C. ELLIOTT, lumberman.

LOUIS MARGOLIN, forest examiner, reconnaissance.

FOREST INVESTIGATIONS.—J. A. MITCHELL and L. T. LARSEN, forest assistants.

RALPH HOPPING, forest examiner, insect control.

E. P. MEINECKE, consulting pathologist; J. S. BOYCE, scientific assistant, San Francisco, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, assistant; land classification—S. N. STONER, forest examiner, in charge of district; J. O. MORROW and P. L. DAY, forest examiners in charge of field parties.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. KUPFER, forest assistant.

EXPERIMENT STATIONS.

Feather River, Plumas National Forest.—HAROLD H. GREENAMYRE, forest assistant, in charge, Quincy, Cal.

Converse, Angeles National Forest.—EDWARD N. MUNNS, forest assistant, in charge, San Bernardino, Cal.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 5, Placerville, Cal.—H. E. BURKE, entomological assistant, in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF).

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); B. H. Mace, deputy forest supervisor; S. W. Strothman and O. M. Evans, forest assistants; John T. Noddin, forest ranger, reconnaissance.

Cleveland.—DAVID G. KINNEY, forest supervisor, San Diego (WU, P-WF).

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

- Kern.**—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); F. P. Cunningham, deputy forest supervisor; Neal T. Childs, forest assistant.
- Klamath.**—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Douglas K. Noyes, R. H. Boerker, and W. H. Gallaher, forest assistants.
- Lassen.**—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); Shirley W. Allen, forest examiner.
- Modoc.**—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.
- Mono.**—See Nevada.
- Monterey.**—N. H. SLOANE, acting forest supervisor, Chews Ridge (WU via Sole-dad-WF Salinas).
- Plumas.**—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-G); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants.
- Santa Barbara.**—W. M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. M. Moore, forest assistant.
- Sequoia.**—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Ducor-WF); S. W. Wynne, deputy forest supervisor; Patrick Kennedy, lumberman, timber sales.
- Shasta.**—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; Pilgrim Creek Nursery, Fred W. Graham, assistant forest ranger, in charge, McCloud.
- Sierra.**—P. G. REDINGTON, forest supervisor, Northfork (WU via Friant-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, Cary Hill, and George C. Morbeck, forest assistants.
- Stanislaus.**—R. W. AYRES, forest supervisor, Sonora (WU-WF); T. C. West, deputy forest supervisor; J. V. Wulff, forest assistant.
- Tahoe.**—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; K. Mills, Reese W. Taylor, and C. H. Edwards, forest assistants; C. H. Ensign, lumberman, timber sales.
- Trinity.**—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernst V. Jotter, forest assistant.

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—W. M. MAULE, forest supervisor, Gardnerville (WU-WF).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; PHILIP H. DATER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; EARL C. ARNOLD, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; C. S. JUDD, assistant district forester; W. H. GIBBONS, investigation of logging costs; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON and L. A. NELSON, scalers.

PLANTING.—J. F. KÜMMEL.

FOREST INVESTIGATIONS.—T. T. MUNGER.

J. F. PERNOT, forest assistant, insect control.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; land classification, J. ROY HARVEY, forest examiner.

PRODUCTS.—H. B. OAKLEAF, in charge; C. W. Dunning, Portland; O. P. M. Goss, C. W. Zimmerman, Cornelius Barry, Geo. M. Hunt, Seattle, Wash.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest assistant, in charge, Carson, Wash.

FOREST INSECT FIELD STATION.

(Bureau of Entomology, Branch of Forest Insect Investigations.)

Station 6, Ashland, Oreg.—W. D. EDMONSTON, entomological assistant, in charge.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan, (SC, U. S. A., WU-AP, Am); S. S. Swenning, deputy forest supervisor.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF).

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); H. D. Foster, William E. White, forest assistants.

Deschutes.—MELVIN L. MERRITT, forest supervisor, Bend (WU, PT & T-GN).

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-P, WF).

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Am, WF via Baker); D. B. Reynolds, deputy forest supervisor.

Minam.—EPHRAIM BARNES, acting forest supervisor, Baker (WU-Am).

Ochoco.—HOMER ROSS, forest supervisor, Prineville (WU, PT & T-Am); Allen Hodgson, deputy forest supervisor.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.

Paulina.—W. W. CRYDER, forest supervisor, Creseent (WU, PT & T-Ad, GN).

Santiam.—F. H. BRUNDAGE, forest supervisor, Albany (WU, P-WF).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P-WF); H. Haefner, forest assistant.

Siuslaw.—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor; H. M. Johnson, forest assistant.

Umatilla.—HUGH B. RANKIN, forest supervisor; Heppner (WU, P-AM).

Umpqua.—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); George Bonebrake, deputy forest supervisor.

Wallowa.—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); N. J. Billings, deputy forest supervisor.

Wenaha.—See Washington.

Whitman.—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker-Am, WF via Baker); E. H. McDaniels, deputy forest supervisor; Lawrence Pagter, forest assistant.

WASHINGTON.

Chelan.—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee).

Columbia.—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor.

Colville.—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor.

Okanogan.—H. M. HALE, forest supervisor, Okanogan (PT & T-Am, GN via Wenatchee); V. V. Harpham, deputy forest supervisor.

Olympic.—R. L. FROMME, forest supervisor, Olympia (WU, P-Am, GN, N); A. A. Parker, deputy forest supervisor.

Rainier.—G. F. ALLEN, forest supervisor, Taeoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor.

Snoqualmie.—STANTON G. SMITH, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Alexander G. Jaekson, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N).

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN)

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—Austin Cary, logging engineer.

DISTRICT 1.—Operation: Forest assistants assigned to reconnaissance—Clark Miles, Adrian C. Adams, J. Roy Brownlie, Winslow L. Gooch, James Logan, David G. White, and Edward J. Yeomans; George H. Hankinson, assistant forest ranger, Lolo; clerks (stenographers and typewriters)—Josephine A. Torkelson, Flathead; Sadie M. Plough, Coeur d'Alene; Shelley E. Schoonover, Pend Oreille; Fred E. Thieme, surveyor, Kaniksu. District office: Dorr Skeels, logging engineer; Frank J. Cool, topographic draftsman; Lewis Padgett, copyist topographic draftsman; Eva E. Blyberg, clerk (stenographer and typewriter).

DISTRICT 2.—District office: E. Leonard Lungren, district engineer; Winifred C. Bunker, clerk (stenographer and typewriter). Operation: M. B. Elliott, surveyor, Bonneville; forest assistants—Bruno R. Kudlich, Roscoe B. Weaver, Arapaho; Clarence E. Taylor, Bonneville; Harold L. Borden, Gunnison; Howard H. Richmond, Minnesota; Victor A. Beede, Pike; assistant forest rangers—Hans N. Klieber, Elmer H. Taylor, Bighorn; Fred J. Stock, Hal L. Stults, Medicine Bow; Edward T. Wehrly, Sopris; Sandford Mills, Washakie; clerks (stenographers and typewriters)—Edith E. Wilson, Harney; Marion E. Carpenter, Sopris; Agnes H. Jacobson, White River; Nettie E. Troy, Holy Cross; forest clerks—Louis E. Coughlin, Medicine Bow; James F. Hubbell, Montezuma; Abbott C. Read, Sundance; Harold C. Klein, Superior; Carl M. Stanley, Uncompahgre.

DISTRICT 3.—Operation: Nathan V. Mosher, blue printer, district office; William H. Gill, copyist topographic draftsman, district office; forest assistants—Earl W. Loveridge, Florida; Edward P. Ancona, Coconino; Edward H. Oldham, assistant forest ranger, Tusayan; Martha S. Stanley, clerk (stenographer and typewriter), Tusayan. Silviculture: Norman W. Scherer, forest assistant, Coconino Experiment Station. Lands: Joseph J. Cotter, clerk, district office.

DISTRICT 4.—Operation: Clarence L. Nelson, assistant forest ranger, Minidoka; Leroy Lindsey, assistant forest ranger, Caribou. Silviculture: Daniel F. Seerey, logging engineer.

DISTRICT 5.—Operation: Clerks (stenographers and typewriters)—Lucile Weaver, Cleveland; Ray H. Avery, Kern; Charles M. Knuthson, assistant forest ranger, Plumas.

DISTRICT 6.—District office: E. W. Ferris and George C. Joy, collaborators. Operation: Clerks—Florence E. Barnhart and Daisy M. Eager, district office; Nellie Brennan, Fremont; Alf Soloos, Rainier; Hildred M. Amadon, Umpqua; forest assistants—William J. Paeth, Colville; William Crosby, Deschutes; Francis S. Fuller, Ochoco; George Y. Baker, Umpqua; assistant forest rangers—Walter L. Dutton, Fremont; Robert Craig, jr., and Harold T. Lewis, Siuslaw; Woodford G. Miller, Wallowa; Albert Baker, Wenaha. Silviculture: W. T. Andrews, logging engineer, district office. Lands: George W. Ridgway, surveyor, district office.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Chester N. Whitney, forest assistant, Deerlodge; assistant forest rangers—George A. Perry, Beartooth; Frederick W. Schumacher, Beaverhead; Percy Knowles and Winthrop H. Young, Bitterroot; Marion E. Heikes, Blackfeet; James L. Adams, Cabinet; Henry R. Snider, Clearwater; Ralph T. Abbott and Charles A. Newman, Custer; George Grigg and William E. Jackson, Deerlodge; Rhesis Fransham, Gallatin; David C. Huson, Kootenai; Eugene Langdon, Nezperce; Harold B. Knapp, Claude C. Parker, and Harvey W. Phillips, Pend Oreille; Ray R. Fitting, Selway; Samuel J. Emswiler and David F. McGill, Sioux.

DISTRICT 2.—Operation: Gordon Parker, forest assistant, Montezuma; assistant forest rangers—William M. Jeffrey, district office; Maitland E. Bradley, Arapaho; Thomas O. Patterson, Battlement; Guy E. Tefft, Durango; Jesse L. Trickel, Gunnison; Howard R. Flint, Michigan; Martin P. Wilson, Montezuma; Stephen E. Doering, Rio Grande; Jacob J. Ellenberger, Routt; Robert K. Potter, White River.

DISTRICT 3.—Operation: Forest rangers—Jay L. B. Taylor, Prescott; Joseph H. Woolsey, Crook; assistant forest rangers—Jennings D. McLeod, Ozark; James J. Woolsey, Prescott.

DISTRICT 4.—Operation: Assistant forest rangers—Clarence E. Favre and Alfred C. Toland, Caribou; John J. Boyle and Lee Roy Tracht, Challis; William Scott Barton, Fillmore; Claude Kelsen, Fishlake; Joseph L. Thorpe, Manti; Dan Nielsen, Minidoka; Marion E. Mahoney, Salmon; Guy S. Heath, Sawtooth; J. Robert Logan and John F. Woodman, Targhee; Fred H. Betts, Samuel A. Buchanan, Louis R. Hillmon, Elmer E. McGinness, and Clinton M. Mangun, Weiser; John W. Davis and William M. Mace, Wyoming.

DISTRICT 5.—Operation: Assistant forest rangers—Matthew J. Keegan, Cleveland; Raleigh R. Bryan, Eldorado; Marion J. Brown, Inyo; Thomas A. Lane and William B. Salstrom, Klamath; William J. Spaulding, William T. Rutherford, and Jonathan M. Stark, Lassen; John A. Kresje and Charles O. Leonard, Modoc; William Hayes, Harold A. Browning, Eugene E. Clark, Paul C. Thayer, John S. Thomas, and Harry S. Yates, Plumas; Nickels C. Matzen, Arthur W. Phillips, and Frank L. St. Clair, Sequoia; Bernard L. Gerard and Ross A. McCloud, Shasta; Dwight C. Birch, Hugh R. Downey, and William H. Parkinson, Sierra; Henry J. Zimmerman, John Nelson Lindsey, and Birney William Adams, Stanislaus; Fred J. Dooley, Charles William Sutcliffe, Geo. E. Poore, Charles W. Bonta, William D. Campbell, Walter H. Coupe, Martin F. Hussey, Charles W. King, George M. Noyes, and Lawrence E. Overmyer, Tahoe; William X. Garrett, David W. Haas, John A. Molin, Oscar O. Hays, Samuel A. Shields, Alva Tracy, and Bruce P. Viles, Trinity; Neal T. Childs, forest assistant, Kern.

DISTRICT 6.—Operation: Forest assistants—H. M. Coan and E. W. Headsten, Columbia; assistant forest rangers—John A. Baker, Cascade; Harry R. Elliott, Colville; John D. Holst and Frank L. Carlson, Crater; Burton Oney, Deschutes; Gaines H. Looney, Fremont; Robert Bennett, John H. Blinn, and Frederic V. Bradford, Malheur; Orville M. Gillenwater, Ochoco; Ernest Jameson, John G. Burghardt, and William O. Sweat, Okanogan; George W. Hutton, Olympic; Warren M. Cooper, Horace Berry, Joseph H. Prout, and Hiram R. Wilcox, Oregon;

Edward H. Mahn, Paulina; O. C. Klingensmith, Ed. Tittle, and Abner T. Wright, Rainier; Harold S. Newins, Santiam; E. E. Harpham, Siskiyou; Ernest J. Moore, Wiley E. Eseher, Claude E. Greider, and Frank J. Klobueher, Snoqualmie; Otto Weaver, Umpqua; Oscar Pratt, Wallowa; James Lowden, Norman G. Macauley, and Joseph Ridley, Washington; Reinhold A. Bottcher and George E. Stevenson, Wenaha; Thomas H. Parker and William F. Rankin, Whitman.

REINSTATED.

DISTRICT 2.—Operation: John B. Cammann, deputy forest supervisor, district office; assistant forest rangers—Walter M. Thomas, Arapaho; Ford J. De Haven, Leadville; John A. Hageman, Rio Grande; Charles C. White, San Juan.

DISTRICT 3.—Operation: Alexander J. MacKay, forest ranger, Apache; Myron G. Browne, elerk, Datil; Floyd R. Wigely, forest elerk, Datil.

DISTRICT 4.—Operation: Irwin W. Cook, forest assistant, Weiser; Earl G. Fogelgren, forest elerk, Ashley. Property auditor: Mae E. Williams, elerk (stenographer and typewriter).

DISTRICT 5.—Operation: Elmer H. McClure and Clarence A. Morris, assistant forest rangers, California; George C. Morbeek, forest assistant, Sierra.

DISTRICT 6.—Operation: Hans T. Hansen, assistant forest ranger, Wenatchee; William C. Neff, assistant forest ranger, Whitman.

CHANGE IN DESIGNATION.

DISTRICT 1.—District officee: Robert J. Moore, chief of maintenance to forest examiner.

DISTRICT 3.—Operation: Gordon T. Backus, forest assistant to forest examiner, Tusayan; N. Curtis Case, forest assistant to forest examiner, Gila; Ira T. Yarnall, forest assistant to deputy forest supervisor, Pecos.

DISTRICT 4.—District officee: Charles P. Calvert, from draftsman to surveyor.

DISTRICT 5.—Operation: Raleigh R. Bryan, from assistant forest ranger to forest guard, Eldorado.

DISTRICT 6.—Operation: Harry W. Fisk, assistant forest ranger to forest ranger, Chugaeh; John M. Sehurr, assistant forest ranger to elerk, Minam.

TRANSFERRED.

DISTRICT 1.—Operation: Forest supervisors—Thomas C. Spaulding, from St. Joe to Lewis and Clark; Scott Leavitt, from Lewis and Clark to Jefferson; Meyer H. Wolff, deputy forest supervisor, from Kaniksu to Couer d'Alene; John E. Keaeh, forest assistant, St. Joe to Lolo; forest assistants to reeonnaissance—Abbott B. Silva and Ernest F. Jones. Produets: P. R. Hicks, engineer in forest produets, from District 5 to District 1.

DISTRICT 2.—Theodore W. Noreross, district engineer, district officee to Washington. Operation: R. B. Adams, superintendent of telephone eonstrucion, district officee to District 1; Theodore Shoemaker, jr., forest supervisor, Leadville to district officee; Roy Wheeler, forest examiner, Hayden to land classification; Earl S. Peiree, deputy

forest supervisor, district office to Bighorn; forest assistants—Michael J. Sweeney, San Juan to district office, district office to Durango; Everard S. Keithley, Pike to land classification; Myron W. Thompson, Shoshone to land classification; forest rangers—D. Kirk Shaw, White River to land classification; James C. Jensen, Black Hills to Hayden; Norman S. Ashlock, Sopris to San Juan; assistant forest rangers—Henry C. Langston, Battlement to land classification; Henry H. McCrary, Black Hills to Harney; clerks (stenographers and typewriters)—Margaret N. Hendricks, district office to Washington; Theresa A. Brady, Kansas to Bureau of Plant Industry; Nellie S. Serier, Superior to Medicine Bow; Agnes D. McNair, clerk (land law), district office to Rio Grande; Rosemary Rhode, clerk, Washington to district office.

DISTRICT 3.—Operation: Robert L. Deering, deputy forest supervisor, Datil to Tusayan; forest rangers—John A. Adams, Arkansas to Jemez; Charles H. Kissam, Gila to Sitgreaves; assistant forest rangers—Richard H. Kennerdell, Prescott to Jemez; Edward A. Lamirand, Wichita to Lincoln; Wayne Russell, Carson to Pecos; forest assistants—Rex King, Arkansas to Jemez; Earl W. Loveridge, Florida to Arkansas; Herman Krauch, Gila to Coconino; J. Wilbur O'Byrne, Zuni to Jemez; Edward P. Ancona, Coconino to Prescott; clerks—Frank C. Douglas, from Solicitor's office to Arkansas; John C. Ristine, Secretary's office to Arkansas; Myron G. Browne, Datil to Coronado; clerks (forest)—Verna H. Seeley, Datil to Manzano-Zuni; Leslie T. Mahurin, Ozark to Florida; Alice H. Chapman, clerk (stenographer and typewriter), Gila to Carson; Gordon Fincannon, clerk (typewriter), Arkansas to Ozark. Lands: Herbert B. Gerhardt, clerk (stenographer and typewriter), Washington to district office.

DISTRICT 4.—Operation: Forest assistants—William Benjamin Rice, Nevada to district office (Lands); Adolph G. Hauge, Uinta to Sevier; Samuel E. Bower, Wasatch to Uinta; Asa L. Brower, district office to Uinta; Frederick C. Baker, Uinta to Utah Experiment Station; Earl C. Sanford, Lemhi to Weiser; assistant forest rangers—Marion T. Johnson, Caribou to Minidoka; Heber C. Hancock, Targhee to Caribou; Ryle R. Teed, Weiser to District 1.

DISTRICT 5.—Oscar C. Merrill, hydroelectrical engineer, from district office to Washington; E.L. Lundgren, district engineer, from District 5 to District 2. Operation: R. B. Grabill, forest clerk, District 5 to District 2; clerks (stenographers and typewriters)—Laura O. Baxter, District 1 to District 5; Elsa H. Schmieder, District 5 to Washington; forest assistants—Charles H. Edwards, Inyo to Tahoe; Richard H. Boerker, Lassen to Klamath; William H. Gallaher, Tahoe to Klamath; Oscar M. Evans, Trinity to California; forest rangers—Ernest B. Long, Angeles to Shasta; Willard L. Sears, Angeles to Stanislaus; Howard A. Thrall, assistant forest ranger, District 5 to District 3. Products: P. R. Hicks, engineer in forest products, from District 5 to District 1.

DISTRICT 6.—Operation: Deputy forest supervisors—S. S. Swenning, Crater to Tongass; Nelson J. Billings, Fremont to Wallowa; forest assistants—B. Frank Heintzelman, Whitman to Cascade; L. B. Pagter, Whitman to Ochoco; George L. Drake and Arthur W. Hodgman, Crater to Okanogan; Norman G. Jacobson, Fremont to Paulina; assistant forest rangers—Mortimer J. Brown, Columbia to Rainier; H. Erbene Newman, Columbia to Santiam. Silviculture: Julius V. Hofmann, forest assistant, District 1 to District 6.

PROMOTED IN RANK.

FORESTER.—Editor: Bristow Adams and Benton MaeKaye, from forest assistants to forest examiners.

SILVICULTURE—Barrington Moore, from forest assistant to forest examiner. Silvies: E. H. Frothingham, W. B. Barrows, G. de S. Canavarro, and C. R. Tillotson, from forest assistants to forest examiners. Forest Management: A. W. Williamson, from forest assistant to forest examiner.

PRODUCTS.—Laboratory: William H. Kempfer, Frederick Dunlap, forest assistants to forest examiners; John H. Thiekens, from chemical engineer in forest products to collaborator.

ACQUISITION—R. C. Hall, E. D. Clark, J. St. J. Benedict, R. G. Merritt, R. F. Hemingway, W. A. Hopson, S. H. Marsh, L. L. Bishop, H. L. Russell, J. H. Fahrenbaeh, E. P. Bushnell, R. W. Shields, C. E. Beaumont, J. J. Fritz, D. W. Martin, S. H. Thompson, Carrington Maefarlane, and H. L. Johnson, from forest assistants to forest examiners.

DISTRICT 1.—Operation: Lewis C. Stockdale, deputy forest supervisor to forest supervisor, Deerlodge; George E. Martin, deputy forest supervisor to forest supervisor, Custer; William C. Latane, forest assistant to deputy forest supervisor, Kootenai; John E. David, forest ranger to deputy forest supervisor, Beaverhead.

DISTRICT 2.—Operation: Assistant forest rangers to forest rangers—Bert B. Morton, Bighorn; Alve L. Richey, Hayden; Stanley R. Brock, Routt; Truman O. Foley, Uneompahghe.

DISTRICT 3.—Operation: Harold Greene, deputy forest supervisor to forest supervisor, Tusayan; assistant forest rangers to forest rangers—Martain F. Bohan, Wichita; Osmer D. Flake, Sitgreaves; James W. Girdner, Tonto; Francis Lee Kirby, Crook; Robert W. Reid, Gila; Benton S. Rogers, Apahe.

DISTRICT 4.—Operation: Forest assistants to deputy forest supervisors—Lester E. Hiteheoek, Ashley; Sidney S. Stewart, Salmon (by transfer from Targhee); John E. Ingram, Wyoming; assistant forest rangers to forest rangers—Edward C. Bagley Fishlake; Wallwin T. Job, Humboldt; Charles E. Butler, Humboldt; Frank Athel Herrell, Santa Rosa; James G. Houston, Sevier; Ernest A. Renner, Targhee.

DISTRICT 5.—Operation: Assistant forest rangers to forest rangers—Thomas W. Sloan, Angeles; Charles E. Whittum, Tahoe.

DISTRICT 6.—Operation: Albert K. Wiesendanger, from messenger to minor clerk, district office; assistant forest rangers to forest rangers—Lucius E. Lueas, Malheur; Oscar E. Kerstetter, Wenatchee.

LEAVE WITHOUT PAY.

SILVICULTURE.—Forest Management: A. W. Williamson, forest assistant.

DISTRICT 1.—Operation: Forest assistants—Frank J. Mosher, Clearwater; Webster H. Ransom, Kootenai; assistant forest rangers—Nathan J. Hayes, Deerlodge; Richard P. Dean, Flathead; James B. Yule, Jefferson; Nina M. Sehanek, clerk (stenographer and typewriter) Kootenai.

DISTRICT 2.—Operation: Gordon Parker, forest assistant, Montezuma.

DISTRICT 3.—Operation: Aldo Leopold forest supervisor, Carson; G. Harris Collingwood, assistant forest ranger, Apahe.

DISTRICT 5.—Operation: Assistant forest rangers—William J. Hoskins, Inyo; Joseph J. Libeu, Santa Barbara; Laura E. Williamson, clerk (stenographer and typewriter), Trinity.

DISTRICT 6.—Operation: Melvin M. Lewis, assistant forest ranger, Siskiyou.

FURLOUGHED.

DISTRICT 1.—Operation: David G. White, forest assistant, Pend Oreille; assistant forest rangers—Charles A. Newman, Custer; Thomas S. Rackliff, Selway; Josephine A. Torkelson, clerk (stenographer and typewriter), Flathead.

DISTRICT 2.—Operation: Assistant forest rangers—Ira L. Hazleton and Martin P. Wilson, Black Hills.

DISTRICT 5.—Operation: John W. Wear, assistant forest ranger, Stanislaus.

RESIGNED.

DISTRICT 1.—Operation: Wallace S. Perrine, forest supervisor, Jefferson; Roscoe Haines, deputy forest supervisor, Coeur d'Alene; James W. Girard, scaler; John L. Cobbs, forest assistant, Flathead; assistant forest rangers—Henry J. Lampe, Absaroka; George A. Bignell, Blackfeet; Frank H. Sayer, Custer; Murray E. Skillman and Glen L. Smurr, Deerlodge; Rhesis Fransham and Albert S. Hapuer, Gallatin; William E. Kierstad, Jefferson; James W. McAbee, Kaniksu; Charles E. Vealey, Lolo; Harry N. Morgan, Missoula; William O. Blackman and James A. Thornton, Pend Oreille; Vernon Heikes, forest clerk, Blackfeet; Evalyn Eddy, clerk (stenographer and typewriter), St. Joe.

DISTRICT 2.—Operation: Harold C. Clark, forest assistant, Bighorn; forest rangers—Oscar A. Emery, Bighorn; John Stewart, Leadville; William P. Huffman, Sopris; assistant forest rangers—Frank A. Myers, Arapaho; Max Barginske, Hayden; David S. Thomas, Montezuma; Perry Craig, Rio Grande; James L. Blackburn, Routt; clerks (stenographers and typewriters)—Ida C. von Rohr, Harney; Edward A. Rowell, Routt; Margaret Cash, Sopris. Lands: Leroy A. Palmer, mineral examiner district office.

DISTRICT 3.—Operation: Assistant forest rangers—James C. Berthelson, jr., Jemez; Hugh R. Moore, Ozark; William C. Koepke, forest assistant, Jemez; forest clerks—Edward A. Pfefferle, Carson; John R. Towles, Datil; Florence V. Herald, clerk (stenographer and typewriter), Tusayan; forest rangers—James P. Leese, Jemez; O. Fred Arthur, Manzano. Lands: Herbert B. Gerhardt, clerk (stenographer and typewriter), district office.

DISTRICT 4.—Operation: Thomas F. Heineman, forest assistant, Sawtooth; forest rangers—John Q. Alsop, Dixie; Archie N. Bell, Humboldt; Vernon Metcalf, Kaibab; assistant forest rangers—Merrit N. Pack, jr., Cache; Maurice B. Cross and Charles H. Keas, Humboldt; Thomas M. Hein, Lemhi; James F. Bach, Wallace A. Hale, and George H. Severe, Minidoka; William H. Kershaw, Ruby; Hewitt B. Emigh and August A. Schroeder, Salmon; James J. McKelvey and Forest Turner, Sawtooth; Lemuel Steele, jr., Targhee; George L. Howland, Wyoming; Bessie A. Sheppard, clerk (stenographer and typewriter), Manti.

DISTRICT 5.—Operation: Assistant forest rangers—William J. Lunsford, Modoc; Ernest E. McKee and Paul J. Robinson, Sequoia; Bressingham Ford, Stanislaus; Vivian C. Noddin and George W. Campbell, Tahoe; Frank A. Wegner, forest assistant, Mono.

DISTRICT 6.—Accounts: B. I. Shannon, clerk, district office. Operation: Nellie M. Goudy, clerk, district office; assistant forest rangers—Horace G. Whitney, Crater; Grover C. Conger, Malheur; Howard J. Eberly, Okanogan; James E. Van Nuys, Oregon; H. E. Derrick, Paulina; Luman C. Rich, Paulina; Edgar J. Murnen, Rainier; Carl H. Young, Siuslaw; Hal R. Williams, Joseph G. G. Morgan, Moritz L. Mueller, Wendell R. Whitney, and Newell L. Wright, Snoqualmie; H. C. Blankenship, Wenatchee; Frank W. Mattson, Whitman. Silviculture: Samuel E. Robison, forest assistant, district office. Products: Halsey P. Wyckoff, assistant engineer in forest products, Seattle Laboratory.

APPOINTMENT TERMINATED.

DISTRICT 1.—Operation: Assistant forest rangers—Clyde C. Carpenter, Blackfeet; Allen O. Calbick, Flathead.

DISTRICT 2.—Operation: Stephen V. Klem, forest assistant, Harney; assistant forest rangers—Frank Tower, Black Hills; Louis E. Coughlin, Medicine Bow; Raymond B. Morris, forest clerk, Montezuma; Aouida K. Wood, clerk (stenographer and typewriter), Sundance.

DISTRICT 3.—Operation: Arthur H. Noon, assistant forest ranger, Coronado.

DISTRICT 5.—Operation: Anthony E. O'Donnell, assistant forest ranger, Kern.

DISTRICT 6.—Forester: J. L. Bridges, collaborator, district office. Operation: Gertrude L. Whiting, clerk, district office; James W. White, assistant forest ranger, Ochoco.

DISMISSED.

DISTRICT 1.—Operation: David D. Johnson, deputy forest supervisor, Blackfeet; Charles A. Rice, assistant forest ranger, Nezperce.

With deep regret announcement is made of the following deaths: Edward A. Hinderer, forest ranger, Prescott National Forest, April 14; Edmund Fotheringham, forest ranger, Sevier National Forest, April 5; Charles Lillick, assistant forest ranger, Tongass National Forest; William J. Nichols, forest ranger, Columbia National Forest, killed by a rolling log, June 27.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* Chicago, Milwaukee & St. Paul Railway Co.: On June 14, 1913, a decree was entered in the United States District Court for the district of Idaho directing the defendant to execute and file a stipulation for the protection of the Coeur d'Alene National Forest, conditioned, however, upon the approval by the Secretary of the Interior of the defendant's map of definite location. The decree also ordered the defendant to pay to the United States its damages and costs. This was a suit brought to enforce the specific performance of an agreement executed by an agent of the defendant, whereby in consideration of its being allowed to construct its road across the Coeur d'Alene National Forest in advance of the approval of its right of way map, the company bound itself to execute and file a stipulation to be prescribed by the Forester. The bill of complaint also contained a prayer for damages. On April 1, 1913, the court rendered a decision, holding for the United States, on the equities of the bill, and on May 21, 1913, it rendered a supplemental decision which contained a finding that the United States was entitled to recover damages as follows: \$26,989 for timber cut upon the right of way and adjoining lands; \$12,000 for mature timber destroyed by fire; \$24,000 for young and immature timber burned, and \$5,500 for damages to the navigability of the St. Joe River, which the defendant had obstructed with rocks, gravel, and other débris. This is believed to be the first case in which the court, in its written opinion, awarded damages to the United States for the destruction of young and immature timber having no market value.

United States *v.* John Hamburg: Suit for \$840 for damages by fire to merchantable timber, and cost of fighting fire, caused by Hamburg negligently allowing a fire to escape from his land upon adjoining National Forest land. The case was tried June 2, 1913, and a verdict returned by the jury for \$350 damages and costs. During the trial the defendant objected to the introduction of evidence on the cost of extinguishing the fire on the lands of the United States, and the objection was overruled, the court holding that the Government was entitled to recover this cost as a part of its damages.

United States *v.* Arthur J. Kulp, John E. Cleary, and Wm. D. Nelson: Criminal prosecution for perjury for filing false affidavits with their homestead applications for land within the National Forest. The Kulp and Cleary cases were tried in the United States District Court for the district of Idaho, May 28, 29, and 31, and resulted in verdicts of acquittal. The Nelson case was thereupon dismissed. In the Cleary case the judge instructed the jury that they should not consider as a valid defense the defend-

ant's testimony that he did not know the contents of the instrument, that if he presented it to a public officer and was sworn as to the truth of the contents, he should be bound by the statements contained in the affidavit.

United States v. Addie Thompson: Civil suit for \$51.60 for grazing trespass. Case was set for trial at June term of United States District Court for the District of Montana and settled by defendant before trial for amount asked and costs.

United States v. W. W. Ferrell: Suit to enjoin defendant from interfering with the occupancy and use of the North Fork Ranger Station at Avery, Idaho. The defendant claimed title by virtue of a mining claim, located subsequently to the withdrawal for administrative purposes. On June 9, 1913, the District Court of the United States for the district of Idaho granted a temporary restraining order enjoining the defendant from interfering with the occupancy and use of the said ranger station and ingress and egress thereto, during the pendency of the suit.

Law Cases in District 2—

On May 21, 1913, S. J. Dixon pleaded guilty in the United States District Court at Deadwood, upon an information charging the unlawful grazing of horses upon the Harney National Forest and a fine of \$25 was imposed.

The case of the *United States v. C. C. Fliniau*, involving the unlawful grazing of cattle upon the Routt National Forest, was tried before a jury in the United States, District Court at Denver on June 19, 1913, and resulted in a verdict of acquittal.

The citation of Andrew Norell, charged with contempt for violating an order of injunction issued out of the United States District Court at Denver, by grazing cattle without a permit upon the Routt and Arapaho National Forests, was heard by the court on April 29, and the order to show cause why the defendant should not be punished as for contempt was dismissed.

In the case of the *United States v. W. E. Taylor*, filed in the United States district court for Wyoming, in which damages in the sum of \$274.35 were sought on account of the unlawful grazing of cattle on the Bighorn National Forest, the Secretary of Agriculture on May 31, 1913, recommended to the Attorney General that the compromise offer of \$120.45 be accepted.

The case of the *United States v. Goemmer and Goemmer*, a suit filed in the United States district court at Denver, Colo., asking the cancellation of a patent for timber and stone lands upon the ground that the land was most valuable for coal, was settled and dismissed June 14, 1913, upon the reconveyance to the United States of the coal which might be found in the land.

Indictments were returned at the May term of the United States district court at Deadwood, S. Dak., against Frank Corns, James Riley, Amos and Thomas Smith, and John H. Woodford upon the charge of leaving fires burning unattended near National Forest land. The defendants were arrested and released on bonds given to insure their appearance at the September term of court.

The fire trespass of the Lanphere-Hinrichs Co. upon the Black Hills National Forest, which resulted in damages of \$3,469.72 to the United States, was settled by the tender of \$3,000 and the recommendation of the Secretary of Agriculture on May 14, 1913, that the sum be accepted.

Law Cases in District 3—

Riley Smaulding, grazing trespass, Crook National Forest. United States court, Phoenix, Ariz. Injunction, with damages and costs amounting to \$175.40, granted April 28.

R. F. Henderson, criminal grazing trespass, Tonto National Forest. United States court, Phoenix, Ariz. Indicted violation Forest Service regulations April 23. Pending trial.

F. T. and Mrs. Duge Colter, grazing trespass, Apache National Forest. United States court, Phoenix, Ariz. Settled by payment of \$310.20 actual and \$50 punitive damages.

Guy Davis, occupancy trespass, Prescott National Forest. United States court, Phoenix, Ariz. Plead guilty; fined \$50.

G. W. Hance, grazing trespass, Prescott National Forest. United States court, Phoenix, Ariz. Garnishment of bank account on judgment. Total paid, \$256.31.

Ramon Ahumada, criminal grazing trespass, Coronado National Forest. United States court, Phoenix, Ariz. Plead guilty; fined \$50.

Eusebio Gallegos, criminal fire trespass, Pecos National Forest. United States court, Santa Fe, N. Mex. Plead guilty; fined \$42.

J. M. Archuleta and Manuel Gomez, criminal grazing trespass, Jemez National Forest. United States court, Santa Fe, N. Mex. Plead guilty; fined \$25 each and required to pay \$112.66 costs.

Hipolito Lopez, criminal grazing trespass, Jemez National Forest. United States court, Santa Fe, N. Mex. Plead guilty; fined \$25 and \$62.50 costs.

J. F. Worthington, criminal grazing trespass, Alamo National Forest. United States court, Santa Fe, N. Mex. Fined \$100 and \$92 costs.

Charles McCarty, civil grazing trespass, Datil National Forest. United States court, Santa Fe, N. Mex. Settled for \$270 actual and \$50 punitive damages.

Telesfor Lopez, civil grazing trespass, Carson National Forest. United States court, Santa Fe, N. Mex. Suit for \$48.75 actual damages. Jury found for defendant.

J. M. C. Chavez, grazing trespass, Carson National Forest. United States court, Santa Fe, N. Mex. Settled for \$16.50 actual and \$15 punitive damages.

Valdez, Atensia, and Chavez, criminal grazing trespass, Jemez National Forest. United States court, Santa Fe, N. Mex. Case against Atensia and Chavez dismissed. Valdez plead guilty and was fined \$100 and \$75.15 costs.

F. M. Cook, criminal fire trespass, Ozark National Forest. Hearing held before United States commissioner, Harrison, Ark., June 3. Held for grand jury under bond of \$2,000.

John Allen, suit to cancel homestead patent, Arkansas National Forest. United States court, Little Rock, Ark. Bill dismissed June 11.

James Thomas Ward, criminal fire trespass, Ozark National Forest. United States court, Batesville, Ark. Tried May 28; acquitted.

Thomas Parker, civil timber trespass, Ozark National Forest. United States court, Fort Smith, Ark. \$5.28 paid on judgment.

Law Cases in District 4—

United States v. Utah Power & Light Co.: Occupancy trespass, Wasatch National Forest. Motion by plaintiff to strike portions of defendant's answer sustained.

United States v. Utah Power & Light Co.: Occupancy trespass, Cache National Forest. Appealed by plaintiff to Circuit Court of Appeals, Eighth Circuit.

United States v. Utah Light & Railway Co.: Occupancy trespass, Wasatch National Forest. Motion by plaintiff to strike portions of defendant's answer sustained.

United States v. Beaver River Power Co.: Occupancy trespass on Fillmore National Forest. Motion by plaintiff to strike portions of defendant's answer sustained.

United States v. Boundy Bros.: Grazing trespass, Nevada National Forest. Defendant settled by payment of \$48 actual damages, \$100 punitive damages, \$105.20 costs. Total, \$253.20.

United States v. John S. Prince: Grazing trespass, Sevier National Forest. Defendant settled through payment of actual damages \$277, and costs not as yet ascertained.

Law Cases in District 6—

In the case of *United States v. A. S. Lavenson et al.*, involving suit to set aside patent to six mineral claims known as the Clear Water Lodes on the Nooksack River within the Washington National Forest, the United States District Court for the Western District of Washington on June 14, 1913, declared the patents invalid.

United States v. Dock F. South, fire trespass, Deschutes National Forest. Defendant in this case was arraigned April 7 before the United States District Court for the District of Oregon, plead guilty, and was fined \$10 and costs.

United States v. W. C. Culp, C. Eagles, D. Baker, and C. T. McCall, fire trespass, Deschutes National Forest. Judgment rendered March 26 in the United States District Court for Oregon for \$10 each, without costs, the defendants entering a plea of guilty.

United States v. H. B. Smith, fire trespass, Wenatchee National Forest. Case settled February 14 on the payment of \$75 in compromise of suit involving \$207.75.

OPERATION.**Standard Color Tints and Crayons—**

The standard color tints and crayons used in forest mapping are described in the Instructions for Making Forest Surveys and Maps, and its supplement. The tints are prepared from standard inks that will be furnished by the property clerk at Ogden upon requisition. The property clerk exercises the greatest care in purchasing only such inks as conform to these standards, but frequently he receives requisitions from forest officers asking for inks which are not standard colors. Forest officers are cautioned that the use of any inks which are not adopted as standard will lead to confusion, and the property clerk will not furnish them unless it is made clear upon the requisition that nonstandard inks are to be used upon special maps of such a nature that the standard inks can not be used, and that they have received proper authority to depart from the standard.

SILVICULTURE.

Cooperation in Securing Commercial and Botanical Range Data—

The extension of our present knowledge of the range and habit of native trees is largely dependent upon the cooperation of all members of the Service in securing field notes on the botanical and commercial distribution of North American trees. This cooperation must be voluntary in character or form only a minor part of assigned field work, yet a great deal of information can be secured in this way, useful both to the men in the field and to the Forest Service as a whole. While in the field, members of the Service often come across trees not common in the forest characteristic of the region and of whose botanical identification they are not certain. If in all such cases the field man will secure specimens of mature foliage and if possible of flowers and fruits, and send them to the Forester accompanied by accurate field notes, the specimens will be identified by the Washington office and the man in the field promptly informed. Such cooperation must necessarily increase the acquaintance of the field men with the forest flora and add to our general knowledge of the range of species.

In order to facilitate the collection of such range data, Form No. 767-s has been revised, with the view of making it suitable for the use of those who are to collect commercial and botanical range notes in the field. It is in the form of an herbarium label, but includes spaces for describing the occurrence of the species. It is printed in notebooks of 100 pages perforated into two parts, one of which is to be torn out and attached as a label to the herbarium specimen, the other remaining in the notebooks as a stub record. Unless the herbarium specimens are accompanied by full notes as to the exact locality, altitude, occurrence, associated species, and so on, they will not prove of great assistance in securing definite information on commercial and botanical distribution. It is therefore essential that all of the spaces provided in the form be carefully filled out in the field. For the proper identification of the specimens the material must be carefully selected; and, as many species can not be identified by foliage alone, flowers and fruits must be secured whenever possible. Specimens can be shipped in boxes, paper, or any other package most convenient to the field men.

As range data are compiled in the form of maps available for use by all the members of the Forest Service, it is essential that all field men cooperate as far as they can in securing notes on distribution.

LANDS.

Appointed Chief Clerk of the Department of the Interior—

Judge James I. Parker, who has for several years been in charge of Claims, left the Service July 15 to accept the position of chief clerk of the Department of the Interior.

SERVICE PUBLICATIONS ISSUED.

- Bulletin 123. Bibliography of the Pulp and Paper Industries.
 Bulletin 126. Experiments in the Preservative Treatment of Red Oak and Hard Maple Crossties.
 Bulletin 127. The Grinding of Spruce for Mechanical Pulp.
 Circular 215. Pith-Ray Flecks in Wood.
 Unnumbered. Fire Prevention and Control on National Forests.
 Unnumbered. National Forest Manual—Grazing (Revised).
 Unnumbered. National Forest Manual—Instructions Relating to Forest Products.
 Unnumbered. National Forest Receipts for the Benefit of Schools and Roads.
 Unnumbered. Review of Forest Service Investigations, Vol. II.
-

CUMULATIVE INDEX TO SERVICE NOTES AND ORDERS.

(JULY, 1913.)

[Numbers in parentheses after the month indicate page.]

- Appointed chief clerk of the Department of the Interior; July (28).
 Color tints and crayons; July (27).
 Cooperation in securing commercial and botanical range data; July (28).
 Crayons and color tints; July (27).
 Fire trespass. (*See Trespass, fire.*)
 Grazing trespass. (*See Trespass, grazing.*)
 Law cases in district 1; July (24).
 2; July (25).
 3; July (26).
 4; July (27).
 6; July (27).
 Occupancy trespass. (*See Trespass, occupancy.*)
 Timber trespass. (*See Trespass, timber.*)
 Trespass cases, fire, district 1; July (24).
 district 2; July (25).
 district 3; July (26).
 district 6; July (27).
 grazing, district 1; July (25).
 district 2; July (25).
 district 3; July (26).
 district 4; July (27).
 occupancy, district 3; July (26).
 district 4; July (27).
 timber, district 1; July (24).
 district 3; July (26).



